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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

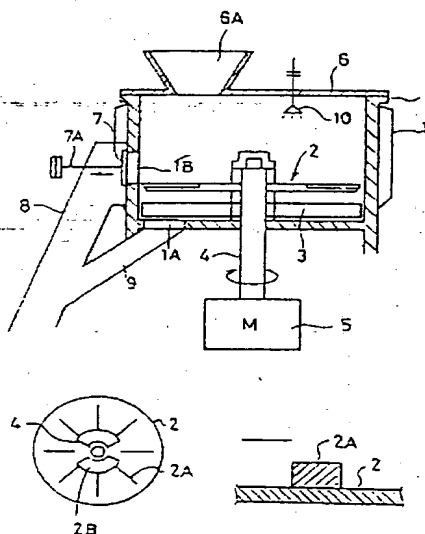
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**(54) METHOD AND APPARATUS FOR CONTINUOUS  
 GRANULATION TO PRODUCE HIGH-DENSITY  
 DETERGENT GRAIN**
**(57) Abstract:**

**PURPOSE:** To produce a high-density detergent grain and to improve the dispersibility and solubility by feeding a detergent powder on a rotating table with radial projections in a granulation chamber and granulating it by a force in the peripheral direction caused by the rotation of the rotating table in the horizontal direction.

**CONSTITUTION:** A detergent powder for a high-density granular detergent consisting of a surface active agent, a builder, etc., is fed from a feeding hole 6A onto a rotating table 2 with radial projections 2A rotating in the horizontal direction in a granulation chamber 1. The powder receives a force in the peripheral direction caused by the projections 2A and collides against the peripheral wall face of the chamber 1 while it is rotatively moved on the rotating table 2 and returns to the rotating table 2. While this behavior is repeated, granulation is accelerated by the action of a binder and the powder is grown into a detergent grain. The formed grains fall down from the falling hole 2B and between the rotating table 2 and the inner wall of the chamber 1 and taken out of an outlet 1A to a shoot 9 by the action of a rotating blade 3. When the amt. of the grains to be treated is large, they overflow and are taken out of an outlet 1B to a shoot 8.



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